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TITLE: MANUFACTURE OF METAL POWDER SINTERED  
COMPACT  
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INVENTOR-INFORMATION:

NAME  
UNNO, MASAHIDE

ASSIGNEE-INFORMATION:

NAME	COUNTRY
SUMITOMO METAL IND LTD	N/A

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ABSTRACT:

PURPOSE: To manufacture alloy raw material for compacted projectile having  
drastically excellent penetration depth more than Cu with  
good yield of the  
material by packing the specific metal powder into space  
between a rubber mold  
and a core of metallic mold and infiltrating Cu or Cu alloy  
after compacting  
with cold isostatic pressing.

CONSTITUTION: After packing mixed material of fine  
powder having 2 - 30  
μm of the metal having excellent infiltrating depth of  
W, Ta, Re, etc., or

alloy of W-Cu, Ta-Cu, Re-Cu, etc., and binder of wax, etc., into a mold for cold isostatic pressing composed of the rubber mold 2 made of e.g., urethane rubber having 5 - 25 mm thickness and metallic mold made of steel material, the cold isostatic press-compacting at 500 - 2000 kg f/cm<sup>2</sup> pressure and dewaxing treatment are executed. After sintering the green compact, Cu-made disk is laid on this and heated to infiltrate Cu, and the alloy raw material for compacted projectile having very excellent penetration depth is obtd.

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